

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE REPLACEMENT OF EXISTING PRESENCE LOOP DETECTORS WITH VIDEO DETECTION CAMERAS AND THE REPLACEMENT OF EXISTING ADVANCE LOOP DETECTORS WITH MICRO-LOOP PROBES AT THE INTERSECTION OF MD BUS. 5 (LEONARDTOWN ROAD) AND POST OFFICE ROAD IN CHARLES COUNTY. MD BUS. 5 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA FIVE-PHASE, SEMI-TRAFFIC-ACTUATED MODE. THERE IS AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR THE NORTHBOUND MOVEMENTS OF MD BUS. 5. THE MD BUS. 5 THROUGH MOVEMENTS OPERATE CONCURRENTLY. THE POST OFFICE ROAD AND PIZZA HUT ENTRANCE APPROACHES ARE SPLIT PHASED.

THE SIGNAL WILL CONTINUE TO BE INTERCONNECTED TO THE MD 5 BUSINESS/PIKA DRIVE INTERSECTION TO THE NORTH

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET/CONTROLLER AND PHASING WILL BE UTILIZED.

THE PRESENCE AND SAMPLING DETECTION REGIONS SHALL BE MONITORED/ACTUATED WITH VIDEO DETECTION CAMERAS.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

CATEGORY CODE No.	QUANTITY	DESCRIPTION
900000-EA	1 EA	VIDEO DETECTION INTERFACE EQUIPMENT (1 TO 4 CAMERAS)
900000-EA	1 EA	DETECTOR RACK RETROFIT
900000-EA	1 EA	DETECTOR RACK POWER SUPPLY
963010	1 EA	FOUR CHANNEL LOOP DETECTOR AMPLIFIER, RACK MOUNT

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

CATEGORY CODE No.	QUANTITY	DESCRIPTION
801706	7.5 SF	REMOVE SIGN FROM EXISTING OVERHEAD STRUCTURE
810550	7 EA	MICROLOOP PROBE, 500 FOOT LEAD-IN CABLE
816001	3 EA	VIDEO DETECTION CAMERA
816005	3 EA	CONTROL CABLE, 250 FOOT VIDEO DETECTION CAMERA TO CONTROLLER
862102	120 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

CONTACTS FOR DISTRICT 5:

MS. KIMBERLY TRAN  
ASSISTANT DISTRICT ENGINEER  
TRAFFIC  
410-841-1019

MR. CHUCK E. GEORGE  
ASSISTANT DISTRICT ENGINEER,  
MAINTENANCE  
410-841-1013

MR. JOHN S. MAYS  
UTILITIES ENGINEER  
410-841-1039

CONTACTS FOR OFFICE OF  
TRAFFIC AND SAFETY:

MR. RICHARD DAFF SR.  
CHIEF, TRAFFIC OPERATIONS  
410-787-7630

MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF,  
TRAFFIC OPERATIONS  
410-787-7630

MR. ED RODENHIZER  
CHIEF, SIGNAL OPERATIONS  
410-787-7650

MR. EUGENE BAILEY  
CHIEF, SIGN OPERATIONS  
410-787-7676

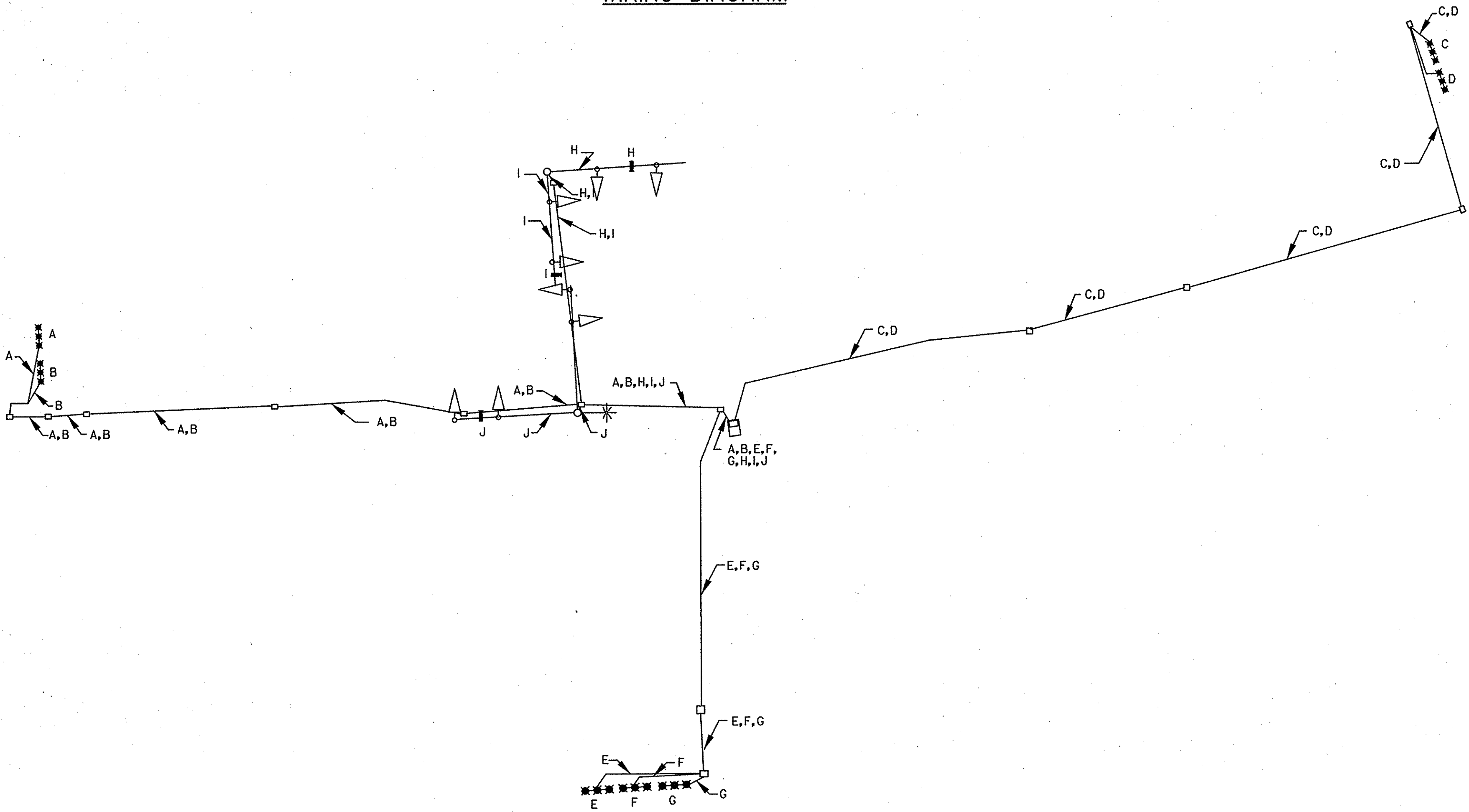
MR. MIKE STOCKER  
SIGNAL SHOP WAREHOUSE  
410-787-7696

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR.

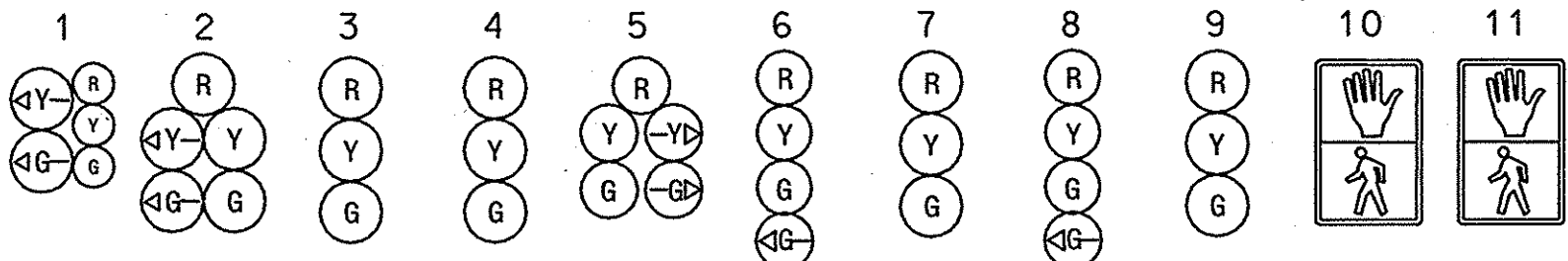
WIRING DIAGRAM



WIRING KEY

A,B,C,D,E,F,G MICROLOOP PROBE LEAD-IN CABLE (500 FEET)  
H,I,J VIDEO DETECTION LEAD-IN CABLE (250 FEET)

PHASE CHART



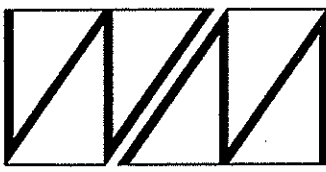
PHASE 2 + 5	←GG	←GG	G	R	R	R	R	R	R	DW	DW	
2 + 5 CHANGE	←YY	←YY	G	R	R	R	R	R	R	DW	DW	
PHASE 2 + 6	G	G	G	G	G	R	R	R	R	DW	DW	
2 + 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	DW	DW	
PHASE 3	R	R	R	R	R	R	R	←G	G	DW	DW	
3 CHANGE	R	R	R	R	R	R	R	Y	Y	DW	DW	
PHASE 3 ALT.	R	R	R	R	R	R	R	←G	G	WK	WK	
PEDESTRIAN CLEAR	R	R	R	R	R	R	R	←G	G	FL/DW	FL/DW	
3 ALT. CHANGE	R	R	R	R	R	R	R	Y	Y	WK	WK	
PHASE 4	R	R	R	R	←G	←G	G	R	R	DW	DW	
4 CHANGE	R	R	R	R	Y	Y	Y	R	R	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 5 BUSINESS AND POST OFFICE ROAD  
GENERAL INFORMATION SHEET

REVISION M CONSULTANT



WALLACE, MONTGOMERY  
& ASSOCIATES, LLP  
CIVIL AND STRUCTURAL ENGINEERS  
110 West Road  
Suite 300  
Towson, Maryland 21204

SCALE \_\_\_\_\_ NTS \_\_\_\_\_ DATE 3-22-00 CONTRACT NO. 2385572508122

DESIGNED BY \_\_\_\_\_ COUNTY CHARLES  
DRAWN BY BRUCE THOMPSON LOGMILE 08000511.57  
CHECKED BY \_\_\_\_\_ T.I.M.S. NO. \_\_\_\_\_  
F.A.P. NO. \_\_\_\_\_ TOD NO. \_\_\_\_\_

DRAWING NO. 1651H OF SHEET NO. 6 OF 10